

Claims:

1. A switch apparatus for causing a DC motor to stop and rotate normally or reversely by switching a connection state of one side driving input and the other side driving input of said DC motor, a positive plate side power source and a negative plate side power source, comprising:

a switch A for cutting off connection between said one side driving input of said DC motor and said negative plate side power source;

a switch B for cutting off connection between said other side driving input of said DC motor and said negative plate side power source; and

a switch C for cutting off connection between said one side driving input of said DC motor and said positive plate side power source and connection between said other side driving input of said DC motor and said positive plate side power source;

wherein said switch A and said switch B are normally-closed type switches, said switch C is a normally-open type switch, and said switch C is opened at a predetermined time before said switch A or said switch B is closed.

2. A switch apparatus for causing a DC motor to stop and rotate normally or reversely by switching a connection state of one side driving input and the other side driving input of said DC motor, a positive plate side power source and a negative plate side power source, comprising:

a switch A for cutting off connection between said one side driving input of said DC motor and said positive plate side power source;

a switch B for cutting off connection between said other side driving input of said DC motor and said positive plate side power source; and

a switch C for cutting off connection between said one side driving input of said DC motor and said negative plate side power source and connection between said other side driving input of said DC motor and said negative plate side power source;

wherein said switch A and said switch B are normally-closed type switches, said switch C is a normally-open type switch, and said switch C is opened at a predetermined time before said switch A or said switch B is closed.

3. A switch apparatus according to claim 1 or 2, wherein said switch C has a slide type structure.

4. A switch apparatus according to claim 1 or 2, wherein said switch A and said switch B are normally-open type switches.

5. A switch apparatus according to claim 1 or 2, wherein said switch C comprises two sets of switches.